Orthophosphate by Flow Injection Colorimetry- LATCHAT
QuickChem Method 10-115-01-1-A

Facility Name:_____VELAP ID_____

Assessor Name:_____Analyst Name:_____Inspection Date_____

Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Records Examined: SOP Number/ Revision/ Date _____ Analyst:_____ Sample ID: _____ Date of Sample Preparation:_____ Date of Analysis:_____					
Are samples filtered within 15 minutes of collection, not acid-preserved, and cooled to ≤6°C at the time of collection?	40 CFR Part 136.3				
Are samples analyzed within 48 hours of collection?	40 CFR Part 136.3				
Prior to use, are reagent solutions degassed with helium for one minute?	7.1				
Is molybdate color reagent prepared fresh weekly?	7.1				
Is ascorbic acid solution prepared fresh weekly and discarded if solution becomes yellow?	7.1				
Are working standards prepared fresh daily?	7.2				
Does the calibration curve include at least a blank and three standards?	10.1				
Is the MDL established using 7aliquots of a concentration two to three times the estimated instrument detection limit, and is it determined every 6 months, when a new analyst begins work, or when there is a significant change in instrument response?	9.2.4				
Is a second source QCS (or LCS) analyzed with each batch and the recovery within ±10%?	9.2.3, 10.4				
Is a LRB analyzed with each batch of samples and determined to be less than the MDL?	9.3.1				
Are a minimum of 10 percent of all samples (one per batch of 10) spiked, and is the recovery within ±10%?	9.4.1				
Is a matrix duplicate or matrix spike duplicate analyzed at a frequency determined as part of a systematic planning process, and has the lab established criteria for RPD? *(No method specifications regarding duplicates.)*	NELAC Ch.5 D.1.1.3.2.b,d				
Notes/Comments:					

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Is calibration verified by a blank and a midrange calibration standard immediately after calibration, after every ten samples, and at the end of the batch, and is its recovery within ±10%?	9.3.4				
If sample pH is above 8, is 1 drop phenolphthalein indicator added to a 50 mL aliquot of sample, and is red color discharged with 11N sulfuric acid added dropwise?	11.1.1				
If sample pH is below 4, is the sample neutralized with 1N NaOH?	11.1.1				
Is the instrument allowed to equilibrate until a stable baseline is achieved?	11.2.4				
If samples are over-range, are they diluted and reanalyzed?	12.2				

Notes/Comments: